

**Committee on Dental Auxiliaries**

2005 Evergreen Street, Suite 1050, Sacramento, California 95815  
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**INSTRUCTIONS**  
**for Completing:**

**Dental Sedation Assistant Course**  
**Application for Approval by the Dental Board of California**

This Application reflects the requirements of Business and Professions Code Sections 1754.5, 1755, and 1756.2, which each course must meet to secure and maintain approval by the Dental Board as a Dental Sedation Assistant Course for individuals seeking an Dental Sedation Assistant Permit.

In the Application document, excerpts from the laws appear in normal text, while questions on the Application appear in italic text. The term "B&P" used in the Application document means "Business and Professions Code Section".

1. Fee. A non-refundable application fee in the amount of \$300 payable to COMDA must be submitted with the Application unless your program is accredited by the Chancellor's office of the California Community Colleges.
2. Number of Copies. One original and two copies (one of which may be on an 1x-52x compatible CD in Word format) of the Application and all required documents must be submitted.
3. Completion of Application. Each question on the Application must be answered fully. An incomplete Application will not be accepted.
4. Attachments. All required documents must be attached as separate Attachments as indicated within the Application, and all Attachments must be submitted with the Application unless otherwise noted.
5. Facilities, Equipment and Supplies. COMDA may choose to review the course facilities, equipment, and supplies.
6. Records Evaluation. COMDA may choose to review all of the required records such as records retained by the course director; practical and clinical examinations; minimum performance records, etc.

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**Dental Sedation Assistant Course  
Application for Approval by the Dental Board of California**

\$300 Fee

Rcpt#: \_\_\_\_\_

File# \_\_\_\_\_

Date of Application: \_\_\_\_\_

Name of Applicant: \_\_\_\_\_

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_ Telephone: \_\_\_\_\_

Type of Course: \_\_\_ Community College \_\_\_ Vocational Program \_\_\_ Dental School

\_\_\_ Private School \_\_\_ Other - specify: \_\_\_\_\_

Name of Course Director: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email Address: \_\_\_\_\_

Name of Owner (if other than Course Director): \_\_\_\_\_

Telephone: \_\_\_\_\_ Email Address: \_\_\_\_\_

**I certify under penalty of perjury under the laws of the State of California that this Application and all attachments are true and correct.**

\_\_\_\_\_  
**Signature of Course Director**

\_\_\_\_\_  
**Date**

**I certify that I will be responsible for the compliance of the course director with the laws governing Dental Sedation Assistant Courses approved by the Dental Board of California. I certify under penalty of perjury under the laws of the State of California that this Application and all attachments are true and correct.**

\_\_\_\_\_  
**Signature of Owner (if other than the Course Director)**

\_\_\_\_\_  
**Date**

(If sole ownership business, individual owner must sign. If partnership, one of the partners must sign. If a corporation, the CEO or secretary of the Corporation must sign.)

**(a) Educational Setting/Student Prerequisite.** The course shall be established at the post-secondary educational level. (Excerpt: B&P 1755(a)(5))

**1. Is the program established at the post-secondary educational level?**

\_\_\_\_ Yes \_\_\_\_ No

**2. Will each student be required to have completed six months of work experience as a dental assistant prior to commencing the course? Attach as Attachment to Question 2 a description of how the course will assure that the dental assistant has completed such experience.**

\_\_\_\_ Yes \_\_\_\_ No

**(b) Administration.** Adequate provisions for the supervision and operation of the course shall be made. (Excerpt: B&P 1756(a))

**3. Will adequate provisions for the supervision and operation of the course be made?**

\_\_\_\_ Yes \_\_\_\_ No

**(c) Course Director/Faculty.** The course director shall possess a valid, active, and current license issued by the board. He or she shall actively participate in and be responsible for the day-to-day administration of the course, including the following requirements:

(1) Maintaining for a period of not less than five years copies of curricula, program outlines, objectives, grading criteria, and copies of faculty credentials, licenses, and certifications, and individual student records, including those necessary to establish satisfactory completion of the course.

(2) Informing the board of any major change to the course content, physical facilities, or faculty, within 10 days of the change.

(3) Ensuring that all staff and faculty involved in clinical instruction meet the requirements set forth in law. (Excerpt: B&P 1755(b))

Each faculty member shall have been licensed or permitted for a minimum of two years and possess experience in the subject matter he or she is teaching. No faculty member shall instruct in any procedure that he or she is not licensed or permitted to perform. (Excerpt: B&P 1755(c))

The course director or faculty may, in lieu of a license issued by the board, possess a valid, active, and current license issued in California as a certified registered nurse anesthetist or a physician and surgeon. (Excerpt: B&P 1756.2(a))

All faculty responsible for clinical evaluation shall have completed a two-hour methodology course in clinical evaluation prior to conducting clinical evaluations of students. (Excerpt: B&P 1756.2(a))

All faculty and staff involved in the direct provision of patient care shall be certified in basic life support procedures, including cardiopulmonary resuscitation. Recertification intervals may not exceed two years. The course director shall ensure and document compliance by faculty and staff. A course shall not be required to ensure that students complete instruction in basic life support prior to performing procedures on patients. (Excerpt: B&P 1755(f))

All students, faculty, and staff involved in the direct provision of patient care shall be certified in basic life support procedures, including the use of an automatic electronic defibrillator. (Excerpt: B&P 1756.2(c)(3))

**4. Does the course director possess a valid, active, and current license issued by the Board? Attach as Attachment to Question 4 the name and license number of the proposed course director.**

\_\_\_\_ Yes \_\_\_\_ No

**5. Will the course director actively participate in and be responsible for the day-to-day administration of the course as specified above? .**

\_\_\_\_ Yes \_\_\_\_ No

**6. Has each faculty member been licensed for at least two years, including a valid, active, and current California license as a certified nurse anesthetist or a physician and surgeon, and possess experience in the subject matter he or she is teaching? Attach as Attachment to Question 6 a table containing the name and license number of each faculty member.**

\_\_\_\_ Yes \_\_\_\_ No

**7. Has each faculty member responsible for clinical evaluation completed a two-hour methodology course in clinical evaluation? Attach as Attachment to Question 7 a copy of the certificate of completion of a two-hour methodology course in clinical evaluation for each faculty member.**

\_\_\_\_ Yes \_\_\_\_ No

**8. Will all faculty and staff involved in the direct provision of patient care be certified in basic life support procedures, including the use of an automatic electronic defibrillator? Attach as Attachment to Question 8 a copy of each faculty and staff members' CPR card.**

\_\_\_\_ Yes \_\_\_\_ No

**(d) Student Certificate of Completion.** A certificate or other evidence of completion shall be issued to each student who successfully completes the course and shall include the student's name, the name of the course, the total number of course hours, the date of completion, and the signature of the course director or his or her designee. (Excerpt: B&P 1755(d)).

**9. Will a certificate or other evidence of completion be issued to each student who successfully completes the course as specified above? Attach as Attachment to Question 9 a copy of the certificate of completion.**

\_\_\_\_ Yes \_\_\_\_ No

**(e) Emergency Management.** A written policy on managing emergency situations shall be made available to all students, faculty, and staff. (Excerpt: B&P 1755(f)).

**10. Does the course have a written policy on managing emergency situations, and will it be made available to all students, faculty, and staff? Attach as Attachment to Question 10 a copy of the policy.**

\_\_\_\_ Yes \_\_\_\_ No

**(f) Infection Control/Hazardous Waste Disposal Protocols.** The course shall establish written clinical and laboratory protocols to ensure adequate asepsis, infection, and hazard control and disposal of hazardous wastes, that comply with the board's regulations and other federal, state, and local requirements. The course shall provide these protocols to all students, faculty, and appropriate staff to ensure compliance with these protocols. Adequate space shall be provided for preparing and sterilizing all armamentarium. All reusable armamentarium shall be sterilized and nonreusable items properly disposed. (Excerpt: B&P 1755(f))

**11. Will OSHA attire and protective eyewear be required for each student?**

\_\_\_\_ Yes \_\_\_\_ No

**12. Does the course have written clinical and laboratory protocols to ensure adequate asepsis, infection and hazard control, and disposal of hazardous wastes, that comply with the board's regulations and other Federal, State, and local requirements, and will such protocols be provided to all students, faculty and appropriate staff? Attach as Attachment to Question 12 a copy of such protocols for the following: PPE; equipment and supply infection control; biohazardous waste; management of occupational exposure to blood and body fluids; infection control protocol for operatory set-up and clean-up; infection control protocol during dental treatment; disinfection; sterilization; sanitization; barrier use; surface disinfection.**

\_\_\_\_ Yes \_\_\_\_ No

**13. Is adequate space provided for preparing and sterilizing all armamentarium? Attach as Attachment to Question 13 a description of how reusable instruments are properly sterilized before use on patients.**

\_\_\_\_ Yes \_\_\_\_ No

**(g) Length of Course.** The course shall be of a sufficient duration for the student to develop minimum competence in all of the duties that dental sedation assistant permitholders are authorized to perform, but in no event less than 110 hours, including at least 40 hours of didactic instruction, at least 32 hours of combined laboratory and preclinical instruction, and at least 38 hours of clinical instruction. . (Excerpt: B&P 1756.2(b))

**14. Will the length of the course be of sufficient duration for each student to develop minimum competency in all of the duties that dental sedation assistant permitholders are authorized to perform, but no less than 110 hours, including at least 40 hours of didactic instruction, at least 32 hours of combined laboratory and pre-clinical instruction, and at least 38 hours of clinical instruction?**

\_\_\_\_ Yes \_\_\_\_ No

**Specify the hours for each of the following:**

Didactic:\_\_\_\_\_ Laboratory:\_\_\_\_\_ Pre-Clinical: \_\_\_\_\_ On-Site Clinical: \_\_\_\_\_ Extern Clinical: \_\_\_\_\_

**(h) Faculty/Student Ratios.** Facilities and class scheduling shall provide each student with sufficient opportunity, with instructor supervision, to develop minimum competency in all duties for which the course is approved to instruct. (Excerpt: B&P 1755(e))

Laboratory Instruction: There shall be at least one instructor for every 14 students who are simultaneously engaged in laboratory instruction.

Preclinical instruction: There shall be at least one instructor for every six students who are simultaneously engaged in preclinical instruction.

Clinical instruction: There shall be at least one instructor for every six students who are simultaneously engaged in clinical instruction. (Excerpt: B&P 1754.5)

**15. Will there be at least the following number of instructors per student who are simultaneously engaged in the following instruction: 1 for every 14 students during laboratory instruction, 1 for every 6 students engaged in pre-clinical instruction, and 1 for every 6 students engaged in clinical instruction?**

\_\_\_\_ Yes \_\_\_\_ No

**Attach as Attachment to Question 15 the following information in a table or chart in the following format for those sessions applicable to the course (do not complete these charts):**

Maximum Students enrolled per session:		Number of Operatories:	
Faculty/Student Ratios	Didactic:	Laboratory:	Clinical:

Class Session*	Hours**	Total Number of Students	Total Number of Faculty Providing Instruction (including Course Director)	Names of Faculty Providing Instruction (including Course Director)

\*Class Session – describe the day or days the class(es) meet, i.e., Monday and Wednesday evenings.

\*\*Hours – provide the hours per day(s)

**(i) Facilities and Resources.** Facilities and class scheduling shall provide each student with sufficient opportunity, with instructor supervision, to develop minimum competency in all duties for which the course is approved to instruct. (Excerpt: B&P 1755(e))

The location and number of general use equipment and armamentaria shall ensure that each student has the access necessary to develop minimum competency in all of the duties for which the course is approved to instruct. The course provider may either provide the specified equipment and supplies or require that the student provide them. Nothing in this section shall preclude a dental office that contains the equipment required by this section from serving as a location for laboratory instruction.

The minimum requirement for armamentaria includes infection control materials specified by the Division of Occupational Safety and Health and the regulations of the board, protective eyewear, mask, and gloves for each student and faculty member, and appropriate eye protection for each piece of equipment. (Excerpt: B&P 1755(e)(1) and (2))

The following are minimum requirements for equipment and armamentaria: one pulse oximeter for each six students; one automated external defibrillator (AED) or AED trainer; one capnograph or teaching device for monitoring of end tidal CO<sub>2</sub>; blood pressure cuff and stethoscope for each six students; one pretracheal stethoscope for each six students; one electrocardiogram machine, one automatic blood pressure/pulse measuring system/machine, and one oxygen delivery system including oxygen tank; one IV start kit for each student; one venous access device kit for each student; IV equipment and supplies for IV infusions including hanging device infusion containers and tubing for each six students; one sharps container for each six students; packaged syringes, needles, needleless devices, practice fluid ampules and vials for each student; stop watch or

timer with second hand for each six students; one heart/lung sounds mannequin or teaching device; tonsillar or pharyngeal suction tip, endotracheal tube forceps, endotracheal tube and appropriate connectors, suction equipment for aspiration of oral and pharyngeal cavities, and laryngoscope in the ratio of at least one for each six students; any other monitoring or emergency equipment that the regulations of the board require for the administration of general anesthesia or conscious sedation; and a selection of instruments and supplemental armamentaria for all of the procedures that dental sedation assistant permitholders are authorized to perform. (Excerpt: B&P 1756.2(c)(1))

**16. Do the facilities and class scheduling provide each student with sufficient opportunity, with instructor supervision, to develop minimum competency in duties that Dental Sedation Assistants are allowed to perform? Attach as Attachment to Question 16 a description of the entire facility, identifying the location of the following major areas of instruction: lecture area; laboratory; dental operatories or surgical suites; and, sterilization area.**

\_\_\_\_ Yes \_\_\_\_ No

**17. Do the location and number of general use equipment and armamentaria ensure that each student has the access necessary to develop minimum competency in the duties that Dental Sedation Assistants are allowed to perform? Do they include all of the equipment and armamentaria specified in Business and Professions Code Section 1756.2(c)(1) (see above)?**

**Attach as Attachment to Question 17 a list of the types, location, and number of the required equipment and armamentarium.**

\_\_\_\_ Yes \_\_\_\_ No

**18. Will protective eyewear, mask, gloves, and clinical attire be required of or provided to student and faculty member, and appropriate eye protection be provided for each piece of equipment?**

\_\_\_\_ Yes \_\_\_\_ No

**(j) Operatories.** Clinical instruction shall be of sufficient duration to allow the procedures to be performed to clinical proficiency. Operatories shall be sufficient in number to allow a ratio of at least one operatory for every five students who are simultaneously engaged in clinical instruction.

Each operatory shall contain functional equipment, including a power-operated chair for treating patients in a supine position, operator and assistant stools, air-water syringe, adjustable light, oral evacuation equipment, work surface, and adjacent hand-washing sink.

Each operatory shall be of sufficient size to simultaneously accommodate one student, one instructor, and one patient. (Excerpt: B&P 1755(e)(3))

(2) Each operatory used for preclinical or clinical training shall contain either a surgery table or a power-operated chair for treating patients in a supine position, an irrigation system or sterile water delivery system as they pertain to the specific practice, and all other equipment and armamentarium required to instruct in the duties that dental sedation assistant permitholders are authorized to perform. (Excerpt: B&P 1756.2(c)(2))

**19. Are operatories or surgical suites sufficient in number to allow a ratio of at least one for every five students who are simultaneously engaged in clinical instruction? Are they of sufficient size to simultaneously accommodate one student, one instructor, and one patient? Do they contain functional equipment, including either a surgery table or a power-operated chair for treating patients in a supine position, an irrigation system or sterile water delivery system, operator and assistant stools, air-water syringe, adjustable light, oral evacuation equipment, work surface, and adjacent hand-washing sink? Attach as Attachment to Question 19 a description of the operatories or surgical suites, their number, and a list of the equipment and supplies that are housed in that area.**

\_\_\_\_ Yes \_\_\_\_ No

**(k) Course Content.** A detailed course outline shall clearly state curriculum subject matter and specific instruction hours in the individual areas of didactic, laboratory, and clinical instruction. General course objectives and specific instructional unit objectives shall be stated in writing, and shall include theoretical aspects of each subject as well as practical application. Objective evaluation criteria shall be used for measuring student progress toward attainment of specific course objectives. Students shall be provided with all of the following:

(1) Specific unit objectives and the evaluation criteria that will be used for all aspects of the curriculum including written, practical, and clinical examinations.

(2) Standards of performance that state the minimum number of satisfactory performances that are required for each procedure.

(3) Standards of performance for laboratory, preclinical, and clinical functions, those steps that constitute a critical error and would cause the student to fail the procedure, and a description of each of the grades that may be assessed for each procedure. (Excerpt: B&P 1755(h))

Didactic Instruction. "Didactic instruction" means lectures, demonstrations, and other instruction without active participation by students. The approved provider or its designee may provide didactic instruction via electronic media, home study materials, or live lecture methodology if the provider has submitted that content for approval. (Excerpt: B&P 1754.5)

Laboratory and Clinical Instruction. "Laboratory instruction" means instruction in which students receive supervised experience performing procedures using study models, mannequins, or other simulation methods.

(c) "Preclinical instruction" means instruction in which students receive supervised experience performing procedures on students, faculty, or staff members.

(d) "Clinical instruction" means instruction in which students receive supervised experience in performing procedures in a clinical setting on patients. Clinical instruction shall only be performed upon successful demonstration and evaluation of preclinical skills. (Excerpt: B&P 1754.5)

(d) Areas of instruction shall include, at a minimum, the instruction specified in subdivisions (e) to (n), inclusive, as they relate to the duties that dental sedation assistant permitholders are authorized to perform.

(e) General didactic instruction shall include:

(1) Patient evaluation and selection factors through review of medical history, physical assessment, and medical consultation.

(2) Characteristics of anatomy and physiology of the circulatory, cardiovascular, and respiratory systems, and the central and peripheral nervous system.

(3) Characteristics of anxiety management related to the surgical patient, relatives, and escorts, and characteristics of anxiety and pain reduction techniques.

(4) Overview of the classification of drugs used by patients for cardiac disease, respiratory disease, hypertension, diabetes, neurological disorders, and infectious diseases.

(5) Overview of techniques and specific drug groups utilized for sedation and general anesthesia.

(6) Definitions and characteristics of levels of sedation achieved with general anesthesia and sedative agents, including the distinctions between conscious sedation, deep sedation, and general anesthesia.

(7) Overview of patient monitoring during conscious sedation and general anesthesia.

(8) Prevention, recognition, and management of complications.

(9) Obtaining informed consent.

(f) (1) With respect to medical emergencies, didactic instruction shall include an overview of medical emergencies, including, but not limited to, airway obstruction, bronchospasm or asthma, laryngospasm, allergic reactions, syncope, cardiac arrest, cardiac dysrhythmia, seizure disorders, hyperglycemia and hypoglycemia, drug overdose, hyperventilation, acute coronary syndrome including angina and myocardial infarction, hypertension, hypotension, stroke, aspiration of vomitus, and congestive heart failure.

(2) Laboratory instruction shall include the simulation and response to at least the following medical emergencies: airway obstruction, bronchospasm, emesis and aspiration of foreign material under anesthesia, angina pectoris, myocardial infarction, hypotension, hypertension, cardiac arrest, allergic reaction, convulsions, hypoglycemia, syncope, and respiratory depression. Both training mannequins and other students or staff may be used for simulation. Instruction shall include at least two experiences each, one of each of which shall be used for a practical examination.

(g) With respect to sedation and the pediatric patient, didactic instruction shall include the following:

(1) Psychological considerations.

(2) Patient evaluation and selection factors through review of medical history, physical assessment, and medical consultation.

(3) Definitions and characteristics of levels of sedation achieved with general anesthesia and sedative agents, with special emphasis on the distinctions between conscious sedation, deep sedation, and general anesthesia.

(4) Review of respiratory and circulatory physiology and related anatomy, with special emphasis on establishing and maintaining a patent airway.

(5) Overview of pharmacology agents used in contemporary sedation and general anesthesia.

(6) Patient monitoring.

(7) Obtaining informed consent.

(8) Prevention, recognition, and management of complications, including principles of basic life support.

(h) With respect to physically, mentally, and neurologically compromised patients, didactic instruction shall include the following: an overview of characteristics of Alzheimer's disease, autism, cerebral palsy, Down syndrome, mental retardation, multiple sclerosis, muscular dystrophy, Parkinson's disease, schizophrenia, and stroke.

(i) With respect to health history and patient assessment, didactic instruction shall include, but not be limited to, the recording of the following:

(1) Age, sex, weight, physical status (American Society of Anesthesiologists Classification), medication use, general health, any known or suspected medically compromising conditions, rationale for anesthesia or sedation of the patient, visual examination of the airway, and auscultation of the heart and lungs as medically required.

(2) General anesthesia or conscious sedation records including a time-oriented record with preoperative, multiple intraoperative, and postoperative pulse oximetry and blood pressure and pulse readings, amounts of time of drug administration, length of procedure, complications of anesthesia or sedation, and a statement of the patient's condition at time of discharge.

(j) With respect to monitoring heart sounds with pretracheal/precordial stethoscope and ECG/EKG and use of AED:

- (1) Didactic instruction shall include the following:
  - (A) Characteristics of pretracheal/precordial stethoscope.
  - (B) Review of anatomy and physiology of circulatory system: heart, blood vessels, and cardiac cycle as it relates to EKG.
  - (C) Characteristics of rhythm interpretation and waveform analysis basics.
  - (D) Characteristics of manual intermittent and automatic blood pressure and pulse assessment.
  - (E) Characteristics and use of an AED.
  - (F) Procedure for using a pretracheal/precordial stethoscope for monitoring of heart sounds.
  - (G) Procedure for use and monitoring of the heart with an ECG/EKG machine, including electrode placement, -and the adjustment of such equipment.
  - (H) Procedure for using manual and automatic blood pressure/pulse/respiration measuring system.
- (2) Preclinical instruction shall include at least three experiences on another student or staff person for each of the following, one of each of which shall be used for an examination. Clinical instruction shall include at least three experiences on a patient for each of the following, one of each of which shall be used for a clinical examination:
  - (A) Assessment of blood pressure and pulse both manually and utilizing an automatic system.
  - (B) Placement and assessment of an electrocardiogram (ECG/EKG). Instruction shall include the adjustment of such equipment.
  - (C) Monitoring and assessment of heart sounds with a pretracheal/precordial stethoscope.
  - (D) Use of an AED or AED trainer.

(k) With respect to monitoring lung/respiratory sounds with pretracheal/precordial stethoscope and monitoring oxygen saturation end tidal CO2 with pulse oximeter and capnograph:

- (1) Didactic instruction shall include the following:
  - (A) Characteristics of pretracheal/precordial stethoscope, pulse oximeter and capnograph for respiration monitoring.
  - (B) Review of anatomy and physiology of respiratory system to include the nose, mouth, pharynx, epiglottis, larynx, trachea, bronchi, bronchioles, and alveolus.
  - (C) Characteristics of respiratory monitoring/lung sounds: mechanism of respiration, composition of respiratory gases, oxygen saturation.
  - (D) Characteristics of manual and automatic respiration assessment.
  - (E) Procedure for using a pretracheal/precordial stethoscope for respiration monitoring.
  - (F) Procedure for using and maintaining pulse oximeter for monitoring oxygen saturation.
  - (G) Procedure for use and maintenance of capnograph.
  - (H) Characteristics for monitoring blood and skin color and other related factors.
  - (I) Procedures and use of an oxygen delivery system.
  - (J) Characteristics of airway management to include armamentaria and use.
- (2) Preclinical and clinical instruction shall include at least three experiences on a student or staff person for each of the following, one of each of which shall be used for an examination. Clinical instruction shall include at least three experiences on a patient for each of the following, one of which shall be used for a clinical examination:
  - (A) Assessment of respiration rates.
  - (B) Monitoring and assessment of lung sounds and ventilation with a pretracheal/precordial stethoscope.
  - (C) Monitoring oxygen saturation with a pulse oximeter.
  - (D) Use of an oxygen delivery system.

(l) With respect to drug identification and draw:

- (1) Didactic instruction shall include:
  - (A) Characteristics of syringes and needles including use, types, gauges, lengths, and components.
  - (B) Characteristics of drug, medication, and fluid storage units, use, type, components, identification of label including generic and brand names, strength, potential adverse reactions, expiration date, and contraindications.
  - (C) Characteristics of drug draw including armamentaria, label verification, ampule and vial preparation, and drug withdrawal techniques.
- (2) Laboratory instruction shall include at least three experiences in the withdrawal of fluids from a vial or ampule in the amount specified by faculty, one of which shall be for a practical examination.
- (3) Clinical instruction shall include at least three experiences in the evaluation of vial or container labels for identification of content, dosage, and strength and in the withdrawal of fluids from a vial or ampule in the amount specified by faculty or the extramural facility dentist.

(m) With respect to adding drugs, medications, and fluids to IV lines:

- (1) Didactic instruction shall include:
  - (A) Characteristics of adding drugs, medications, and fluids to IV lines in the presence of a licensed dentist.
  - (B) Armamentaria.
  - (C) Procedures for adding drugs, medications, and fluids, including amount and time intervals.
  - (D) Procedures for adding drugs, medications, and fluids by IV bolus.
  - (E) Characteristics of patient observation for signs and symptoms of drug response.



(2) Laboratory instruction shall include at least three experiences of adding fluids to an existing IV line on a venipuncture training arm or in a simulated environment, one of which shall be used for a practical examination.

(3) Clinical instruction shall include at least three experiences adding fluids to existing IV lines on at least three patients in the presence of a licensed dentist.

(n) With respect to the removal of IV lines:

(1) Didactic instruction shall include overview and procedures for the removal of an IV line.

(2) Laboratory instruction shall include at least three experiences on a venipuncture training arm or in a simulated environment for IV removal, one of which shall be used for a practical examination.

(3) Clinical instruction shall include at least three experiences removing IV lines on at least three patients in the presence of a licensed dentist.

(Excerpt: B&P 1756.2(d))

Student Examination. Each student shall pass a written examination that reflects the curriculum content, which may be administered at intervals throughout the course as determined by the course director. (Excerpt: B&P 1756.2(o))

(Note: See above excerpt from B&P 1756.2 regarding practical and clinical examinations.)

**20. Will clinical instruction only be performed by students upon the successful demonstration and evaluation of their preclinical skills?**

\_\_\_\_ Yes \_\_\_\_ No

**21. Will instruction include all content described in Business and Professions Code Section 1756.2, governing the approval of Dental Sedation Assistant Course content (see excerpt above)?**

\_\_\_\_ Yes \_\_\_\_ No

**22. Attach as Attachment to Question 22 the following for each course/module:**

- Detailed course outline including subsections that clearly states curriculum subject matter and specifies instruction hours for each topic in the individual areas of didactic, lab, clinical, and externship instruction
- General course objectives
- Specific objectives in the cognitive and psychomotor domain
- Criteria for all psychomotor skills
- Minimum number of satisfactory performances for all psychomotor skills
- Lesson plans (including information sheets/procedure sheets when applicable)
- Process evaluation grade sheets
- Product evaluation grade sheets
- Practical and clinical examinations
- Written examinations and keys – To be provided at Site Visit

**(l) Extramural Clinical Instruction.** If an extramural clinical facility is utilized, students shall, as part of an extramural organized program of instruction, be provided with planned, supervised clinical instruction. Laboratory and preclinical instruction shall be performed under the direct supervision of course faculty and shall not be provided in extramural facilities.

The course director, or a designated faculty member, shall be responsible for selecting extramural clinical sites and evaluating student competence in performing procedures both before and after the clinical assignment.

The course director, or a designated faculty member, shall orient dentists who intend to provide extramural clinical facilities prior to the student assignment. Orientation shall include the objectives of the course, the student's preparation for the clinical assignment, and a review of procedures and criteria to be used by the dentist in evaluating the student during the assignment. The course faculty and extramural clinic personnel shall use the same objective evaluation criteria.

There shall be a written contract of affiliation with each extramural clinical facility, which shall describe the settings in which the clinical training will be received, and affirm that the dentist and clinic personnel acknowledge the legal scope of duties and infection control requirements, that the clinical facility has the necessary equipment and armamentaria appropriate for the

procedures to be performed, and that the equipment and armamentaria are in safe operating condition. (Excerpt: B&P 1755(i))

No more than 25 percent of the required clinical instruction shall take place in extramural clinical facilities. (Excerpt: B&P 1757(f))

**23. Will extramural facilities be utilized? If yes, continue with the following questions.**

\_\_\_\_ Yes \_\_\_\_ No

**24. Will all laboratory and pre-clinical instruction be performed under the direct supervision of course faculty and not in extramural facilities?**

\_\_\_\_ Yes \_\_\_\_ No

**25. Will no more than 25 percent of the required clinical instruction take place in extramural clinical facilities?**

\_\_\_\_ Yes \_\_\_\_ No

**Specify the number of extern clinical hours: \_\_\_\_\_**

**26. Will the course director, or a designated faculty member, be responsible for selecting extramural clinical sites and evaluating student competence in performing procedures both before and after the clinical assignment?**

\_\_\_\_ Yes \_\_\_\_ No

**27. Will the course director, or a designated faculty member, orient dentists who intend to provide extramural clinical facilities prior to the student assignment? Will the course faculty and extramural clinical personnel use the same objective evaluation criteria?**

\_\_\_\_ Yes \_\_\_\_ No

**28. Will there be a written contract of affiliation with each extramural clinical facility? Attach as Attachment to Question 28 a copy of the contract of affiliation with each extramural facility.**

\_\_\_\_ Yes \_\_\_\_ No

## **APPENDIX 1: APPLICABLE LAWS AND REGULATIONS**

### **Dental Sedation Assistant Allowable Duties Beginning 1/1/10**

Following are sections of the Business and Professions Code that describe the allowable duties of unlicensed dental assistants and Dental Sedation Assistants beginning January 1, 2010.

#### **Business and Professions Code Section 1750.1 – DA Duties Beginning 1/1/10**

- (a) A dental assistant may perform the following duties under the general supervision of a supervising licensed dentist:
- (1) Extra-oral duties or procedures specified by the supervising licensed dentist, provided that these duties or procedures meet the definition of a basic supportive procedure specified in Section 1750.
  - (2) Operate dental radiography equipment for the purpose of oral radiography if the dental assistant has complied with the requirements of Section 1656.
  - (3) Perform intraoral and extraoral photography.
- (b) A dental assistant may perform the following duties under the direct supervision of a supervising licensed dentist:
- (1) Apply nonaerosol and noncaustic topical agents.
  - (2) Apply topical fluoride.
  - (3) Take intraoral impressions for all nonprosthodontic appliances.
  - (4) Take facebow transfers and bite registrations.
  - (5) Place and remove rubber dams or other isolation devices.
  - (6) Place, wedge, and remove matrices for restorative procedures.
  - (7) Remove post-extraction dressings after inspection of the surgical site by the supervising licensed dentist.
  - (8) Perform measurements for the purposes of orthodontic treatment.
  - (9) Cure restorative or orthodontic materials in operative site with a light-curing device.
  - (10) Examine orthodontic appliances.
  - (11) Place and remove orthodontic separators.
  - (12) Remove ligature ties and archwires.
  - (13) After adjustment by the dentist, examine and seat removable orthodontic appliances and deliver care instructions to the patient.
  - (14) Remove periodontal dressings.
  - (15) Remove sutures after inspection of the site by the dentist.
  - (16) Place patient monitoring sensors.
  - (17) Monitor patient sedation, limited to reading and transmitting information from the monitor display during the intraoperative phase of surgery for electrocardiogram waveform, carbon dioxide and end tidal carbon dioxide concentrations, respiratory cycle data, continuous noninvasive blood pressure data, or pulse arterial oxygen saturation measurements, for the purpose of interpretation and evaluation by a supervising licensed dentist who shall be at the patient's chairside during this procedure.
  - (18) Assist in the administration of nitrous oxide when used for analgesia or sedation. A dental assistant shall not start the administration of the gases and shall not adjust the flow of the gases unless instructed to do so by the supervising licensed dentist who shall be present at the patient's chairside during the implementation of these instructions. This paragraph shall not be construed to prevent any person from taking appropriate action in the event of a medical emergency.
- (c) Under the supervision of a registered dental hygienist in alternative practice, a dental assistant may perform intraoral retraction and suctioning.
- (d) The board may specify additional allowable duties by regulation.
- (e) The duties of a dental assistant or a dental assistant holding a permit in orthodontic assisting or in dental sedation do not include any of the following procedures unless specifically allowed by law:
- (1) Diagnosis and comprehensive treatment planning.
  - (2) Placing, finishing, or removing permanent restorations.
  - (3) Surgery or cutting on hard and soft tissue including, but not limited to, the removal of teeth and the cutting and suturing of soft tissue.
  - (4) Prescribing medication.
  - (5) Starting or adjusting local or general anesthesia or oral or parenteral conscious sedation, except for the administration of nitrous oxide and oxygen, whether administered alone or in combination with each other and except as otherwise provided by law.
  - (f) The duties of a dental assistant are defined in subdivision (a) of Section 1750 and do not include any duty or procedure that only an orthodontic assistant permitholder, dental sedation assistant permitholder, registered dental assistant, registered dental assistant in extended functions, registered dental hygienist, or registered dental hygienist in alternative practice is allowed to perform.

#### **Business and Professions Code Section 1750.5 – Dental Sedation Assistant Duties Beginning 1/1/10**

1750.5. A person holding a dental sedation assistant permit pursuant to Section 1750.4 may perform the following duties under the direct supervision of a licensed dentist or other licensed health care professional authorized to administer conscious sedation or general anesthesia in the dental office:

- (a) All duties that a dental assistant is allowed to perform.
- (b) Monitor patients undergoing conscious sedation or general anesthesia utilizing data from noninvasive instrumentation such as pulse oximeters, electrocardiograms, capnography, blood pressure, pulse, and respiration rate monitoring devices. Evaluation of the condition of a sedated patient shall remain the responsibility of the dentist or other licensed health care professional authorized to administer conscious sedation or general anesthesia, who shall be at the patient's chairside while conscious sedation or general anesthesia is being administered.
- (c) Drug identification and draw, limited to identification of appropriate medications, ampule and vial preparation, and withdrawing drugs of correct amount as verified by the supervising licensed dentist.
- (d) Add drugs, medications, and fluids to intravenous lines using a syringe, provided that a supervising licensed dentist is present at the patient's chairside, limited to determining patency of intravenous line, selection of injection port, syringe insertion into injection port, occlusion of intravenous line and blood aspiration, line release and injection of drugs for appropriate time interval. The exception to this duty is that the initial dose of a drug or medication shall be administered by the supervising licensed dentist.
- (e) Removal of intravenous lines.
- (f) Any additional duties that the board may prescribe by regulation.
- (g) The duties listed in subdivisions (b) to (e), inclusive, may not be performed in any setting other than a dental office or dental clinic.

### **Requirements for Dental Sedation Assistant Courses**

Following are the statutes governing Dental Sedation Assistant courses.

#### **Business and Professions Code Section 1754.5 – Definitions/Faculty to Student Ratios**

1754.5. As used in this article, the following definitions shall apply:

- (a) "Didactic instruction" means lectures, demonstrations, and other instruction without active participation by students. The approved provider or its designee may provide didactic instruction via electronic media, home study materials, or live lecture methodology if the provider has submitted that content for approval.
- (b) "Laboratory instruction" means instruction in which students receive supervised experience performing procedures using study models, mannequins, or other simulation methods. There shall be at least one instructor for every 14 students who are simultaneously engaged in laboratory instruction.
- (c) "Preclinical instruction" means instruction in which students receive supervised experience performing procedures on students, faculty, or staff members. There shall be at least one instructor for every six students who are simultaneously engaged in preclinical instruction.
- (d) "Clinical instruction" means instruction in which students receive supervised experience in performing procedures in a clinical setting on patients. Clinical instruction shall only be performed upon successful demonstration and evaluation of preclinical skills. There shall be at least one instructor for every six students who are simultaneously engaged in clinical instruction.
- (e) This section shall remain in effect only until January 1, 2011, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2011, deletes or extends that date.

#### **Business and Professions Code Section 1755 – General Provisions Governing all Dental Assistant Programs and Courses**

1755. (a) (1) The criteria in subdivisions (b) to (h), inclusive, shall be met by a dental assisting program or course and all orthodontic assisting and dental sedation assisting permit programs or courses to secure and maintain approval by the board as provided in this article.

- (2) The board may approve, provisionally approve, or deny approval of any program or course.
- (3) Program and course records shall be subject to inspection by the board at any time.
- (4) The board may withdraw approval at any time that it determines that a program or course does not meet the requirements established in this section or any other requirements of law.
- (5) All programs and courses shall be established at the postsecondary educational level or deemed equivalent thereto by the board.
- (b) The program or course director shall possess a valid, active, and current license issued by the *board*. The program or course director shall actively participate in and be responsible for the day-to-day administration of the program or course, including the following requirements:
  - (1) Maintaining for a period of not less than five years copies of curricula, program outlines, objectives, and grading criteria, and copies of faculty credentials, licenses, and certifications, and individual student records, including those necessary to establish satisfactory completion of the program or course.
  - (2) Informing the board of any major change to the program or course content, physical facilities, or faculty, within 10 days of the change.
  - (3) Ensuring that all staff and faculty involved in clinical instruction meet the requirements set forth in this article.

(c) No faculty member shall instruct in any procedure that he or she is not licensed or permitted to perform. Each faculty member shall have been licensed or permitted for a minimum of two years and possess experience in the subject matter he or she is teaching.

(d) A certificate or other evidence of completion shall be issued to each student who successfully completes the program or course and shall include the student's name, the name of the program or course, the total number of program or course hours, the date of completion, and the signature of the program or course director or his or her designee.

(e) Facilities and class scheduling shall provide each student with sufficient opportunity, with instructor supervision, to develop minimum competency in all duties for which the program or course is approved to instruct.

(1) The location and number of general use equipment and armamentaria shall ensure that each student has the access necessary to develop minimum competency in all of the duties for which the program or course is approved to instruct. The program or course provider may either provide the specified equipment and supplies or require that the student provide them. Nothing in this section shall preclude a dental office that contains the equipment required by this section from serving as a location for laboratory instruction.

(2) The minimum requirement for armamentaria includes infection control materials specified by the Division of Occupational Safety and Health and the regulations of the board, protective eyewear, mask, and gloves for each student and faculty member, and appropriate eye protection for each piece of equipment.

(3) Clinical instruction shall be of sufficient duration to allow the procedures to be performed to clinical proficiency. Operatories shall be sufficient in number to allow a ratio of at least one operatory for every five students who are simultaneously engaged in clinical instruction.

(A) Each operatory shall contain functional equipment, including a power-operated chair for treating patients in a supine position, operator and assistant stools, air-water syringe, adjustable light, oral evacuation equipment, work surface, and adjacent hand-washing sink.

(B) Each operatory shall be of sufficient size to simultaneously accommodate one student, one instructor, and one patient.

(f) The program or course shall establish written clinical and laboratory protocols to ensure adequate asepsis, infection, and hazard control and disposal of hazardous wastes, that comply with the board's regulations and other federal, state, and local requirements. The program or course shall provide these protocols to all students, faculty, and appropriate staff to ensure compliance with these protocols. Adequate space shall be provided for preparing and sterilizing all armamentarium. All reusable armamentarium shall be sterilized and nonreusable items properly disposed.

(g) A written policy on managing emergency situations shall be made available to all students, faculty, and staff. All faculty and staff involved in the direct provision of patient care shall be certified in basic life support procedures, including cardiopulmonary resuscitation. Recertification intervals may not exceed two years. The program or course director shall ensure and document compliance by faculty and staff. A program or course shall not be required to ensure that students complete instruction in basic life support prior to performing procedures on patients.

(h) A detailed program or course outline shall clearly state curriculum subject matter and specific instruction hours in the individual areas of didactic, laboratory, and clinical instruction. General program or course objectives and specific instructional unit objectives shall be stated in writing, and shall include theoretical aspects of each subject as well as practical application. Objective evaluation criteria shall be used for measuring student progress toward attainment of specific program or course objectives. Students shall be provided with all of the following:

(1) Specific unit objectives and the evaluation criteria that will be used for all aspects of the curriculum including written, practical, and clinical examinations.

(2) Standards of performance that state the minimum number of satisfactory performances that are required for each procedure.

(3) Standards of performance for laboratory, preclinical, and clinical functions, those steps that constitute a critical error and would cause the student to fail the procedure, and a description of each of the grades that may be assessed for each procedure.

(i) (1) If an extramural clinical facility is utilized, students shall, as part of an extramural organized program of instruction, be provided with planned, supervised clinical instruction. Laboratory and preclinical instruction shall be performed under the direct supervision of program or course faculty and shall not be provided in extramural facilities.

(2) The program or course director, or a designated faculty member, shall be responsible for selecting extramural clinical sites and evaluating student competence in performing procedures both before and after the clinical assignment.

(3) The program or course director, or a designated faculty member, shall orient dentists who intend to provide extramural clinical facilities prior to the student assignment. Orientation shall include the objectives of the program or course, the student's preparation for the clinical assignment, and a review of procedures and criteria to be used by the dentist in evaluating the student during the assignment. The program or course faculty and extramural clinic personnel shall use the same objective evaluation criteria.

(4) There shall be a written contract of affiliation with each extramural clinical facility, which shall describe the settings in which the clinical training will be received, and affirm that the dentist and clinic personnel acknowledge the legal scope of duties and infection control requirements, that the clinical facility has the necessary equipment and armamentaria appropriate for the procedures to be performed, and that the equipment and armamentaria are in safe operating condition.

(j) Any additional requirements that the board may prescribe by regulation.

(k) This section shall remain in effect only until January 1 2011, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2011, deletes or extends that date.

### **Business and Professions Code Section 1756.2 – Dental Sedation Assistant Courses**

1756.2. In addition to the requirements of Section 1755, the following criteria shall be met by a dental sedation assistant permit course to secure and maintain approval by the board. The board may approve a dental sedation assistant permit course prior to January 1, 2010, and recognize the completion of these courses by students prior to January 1, 2010, but the board may not issue a dental sedation assistant permit to students graduating from dental sedation assistant permit courses until on or after January 1, 2010. As used in this section, "IV" means "intravenous."

(a) (1) The course director or faculty may, in lieu of a license issued by the board, possess a valid, active, and current license issued in California as a certified registered nurse anesthetist or a physician and surgeon.

(2) All faculty responsible for clinical evaluation shall have completed a two-hour methodology course in clinical evaluation prior to conducting clinical evaluations of students.

(b) The course shall be of a sufficient duration for the student to develop minimum competence in all of the duties that dental sedation assistant permitholders are authorized to perform, but in no event less than 110 hours, including at least 40 hours of didactic instruction, at least 32 hours of combined laboratory and preclinical instruction, and at least 38 hours of clinical instruction.

(c) (1) The following are minimum requirements for equipment and armamentaria: one pulse oximeter for each six students; one automated external defibrillator (AED) or AED trainer; one capnograph or teaching device for monitoring of end tidal CO<sub>2</sub>; blood pressure cuff and stethoscope for each six students; one pretracheal stethoscope for each six students; one electrocardiogram machine, one automatic blood pressure/pulse measuring system/machine, and one oxygen delivery system including oxygen tank; one IV start kit for each student; one venous access device kit for each student; IV equipment and supplies for IV infusions including hanging device infusion containers and tubing for each six students; one sharps container for each six students; packaged syringes, needles, needleless devices, practice fluid ampules and vials for each student; stop watch or timer with second hand for each six students; one heart/lung sounds mannequin or teaching device; tonsillar or pharyngeal suction tip, endotracheal tube forceps, endotracheal tube and appropriate connectors, suction equipment for aspiration of oral and pharyngeal cavities, and laryngoscope in the ratio of at least one for each six students; any other monitoring or emergency equipment that the regulations of the board require for the administration of general anesthesia or conscious sedation; and a selection of instruments and supplemental armamentaria for all of the procedures that dental sedation assistant permitholders are authorized to perform.

(2) Each operatory used for preclinical or clinical training shall contain either a surgery table or a power-operated chair for treating patients in a supine position, an irrigation system or sterile water delivery system as they pertain to the specific practice, and all other equipment and armamentarium required to instruct in the duties that dental sedation assistant permitholders are authorized to perform.

(3) All students, faculty, and staff involved in the direct provision of patient care shall be certified in basic life support procedures, including the use of an automatic electronic defibrillator.

(d) Areas of instruction shall include, at a minimum, the instruction specified in subdivisions (e) to (n), inclusive, as they relate to the duties that dental sedation assistant permitholders are authorized to perform.

(e) General didactic instruction shall include:

(1) Patient evaluation and selection factors through review of medical history, physical assessment, and medical consultation.

(2) Characteristics of anatomy and physiology of the circulatory, cardiovascular, and respiratory systems, and the central and peripheral nervous system.

(3) Characteristics of anxiety management related to the surgical patient, relatives, and escorts, and characteristics of anxiety and pain reduction techniques.

(4) Overview of the classification of drugs used by patients for cardiac disease, respiratory disease, hypertension, diabetes, neurological disorders, and infectious diseases.

(5) Overview of techniques and specific drug groups utilized for sedation and general anesthesia.

(6) Definitions and characteristics of levels of sedation achieved with general anesthesia and sedative agents, including the distinctions between conscious sedation, deep sedation, and general anesthesia.

(7) Overview of patient monitoring during conscious sedation and general anesthesia.

(8) Prevention, recognition, and management of complications.

(9) Obtaining informed consent.

(f) (1) With respect to medical emergencies, didactic instruction shall include an overview of medical emergencies, including, but not limited to, airway obstruction, bronchospasm or asthma, laryngospasm, allergic reactions, syncope, cardiac arrest, cardiac dysrhythmia, seizure disorders, hyperglycemia and hypoglycemia, drug overdose, hyperventilation, acute coronary syndrome including angina and myocardial infarction, hypertension, hypotension, stroke, aspiration of vomitus, and congestive heart failure.

(2) Laboratory instruction shall include the simulation and response to at least the following medical emergencies: airway obstruction, bronchospasm, emesis and aspiration of foreign material under anesthesia, angina pectoris, myocardial infarction, hypotension, hypertension, cardiac arrest, allergic reaction, convulsions, hypoglycemia, syncope, and respiratory depression. Both training mannequins and other students or staff may be used for simulation. Instruction shall include at least two experiences each, one of each of which shall be used for a practical examination.

(g) With respect to sedation and the pediatric patient, didactic instruction shall include the following:

- (1) Psychological considerations.
- (2) Patient evaluation and selection factors through review of medical history, physical assessment, and medical consultation.
- (3) Definitions and characteristics of levels of sedation achieved with general anesthesia and sedative agents, with special emphasis on the distinctions between conscious sedation, deep sedation, and general anesthesia.
- (4) Review of respiratory and circulatory physiology and related anatomy, with special emphasis on establishing and maintaining a patent airway.
- (5) Overview of pharmacology agents used in contemporary sedation and general anesthesia.
- (6) Patient monitoring.
- (7) Obtaining informed consent.
- (8) Prevention, recognition, and management of complications, including principles of basic life support.
- (h) With respect to physically, mentally, and neurologically compromised patients, didactic instruction shall include the following: an overview of characteristics of Alzheimer's disease, autism, cerebral palsy, Down syndrome, mental retardation, multiple sclerosis, muscular dystrophy, Parkinson's disease, schizophrenia, and stroke.
- (i) With respect to health history and patient assessment, didactic instruction shall include, but not be limited to, the recording of the following:
  - (1) Age, sex, weight, physical status (American Society of Anesthesiologists Classification), medication use, general health, any known or suspected medically compromising conditions, rationale for anesthesia or sedation of the patient, visual examination of the airway, and auscultation of the heart and lungs as medically required.
  - (2) General anesthesia or conscious sedation records including a time-oriented record with preoperative, multiple intraoperative, and postoperative pulse oximetry and blood pressure and pulse readings, amounts of time of drug administration, length of procedure, complications of anesthesia or sedation, and a statement of the patient's condition at time of discharge.
- (j) With respect to monitoring heart sounds with pretracheal/precordial stethoscope and ECG/EKG and use of AED:
  - (1) Didactic instruction shall include the following:
    - (A) Characteristics of pretracheal/precordial stethoscope.
    - (B) Review of anatomy and physiology of circulatory system: heart, blood vessels, and cardiac cycle as it relates to EKG.
    - (C) Characteristics of rhythm interpretation and waveform analysis basics.
    - (D) Characteristics of manual intermittent and automatic blood pressure and pulse assessment.
    - (E) Characteristics and use of an AED.
    - (F) Procedure for using a pretracheal/precordial stethoscope for monitoring of heart sounds.
    - (G) Procedure for use and monitoring of the heart with an ECG/EKG machine, including electrode placement, -and the adjustment of such equipment.
    - (H) Procedure for using manual and automatic blood pressure/pulse/respiration measuring system.
  - (2) Preclinical instruction shall include at least three experiences on another student or staff person for each of the following, one of each of which shall be used for an examination. Clinical instruction shall include at least three experiences on a patient for each of the following, one of each of which shall be used for a clinical examination:
    - (A) Assessment of blood pressure and pulse both manually and utilizing an automatic system.
    - (B) Placement and assessment of an electrocardiogram (ECG/EKG). Instruction shall include the adjustment of such equipment.
    - (C) Monitoring and assessment of heart sounds with a pretracheal/precordial stethoscope.
    - (D) Use of an AED or AED trainer.
- (k) With respect to monitoring lung/respiratory sounds with pretracheal/precordial stethoscope and monitoring oxygen saturation end tidal CO<sub>2</sub> with pulse oximeter and capnograph:
  - (1) Didactic instruction shall include the following:
    - (A) Characteristics of pretracheal/precordial stethoscope, pulse oximeter and capnograph for respiration monitoring.
    - (B) Review of anatomy and physiology of respiratory system to include the nose, mouth, pharynx, epiglottis, larynx, trachea, bronchi, bronchioles, and alveolus.
    - (C) Characteristics of respiratory monitoring/lung sounds: mechanism of respiration, composition of respiratory gases, oxygen saturation.
    - (D) Characteristics of manual and automatic respiration assessment.
    - (E) Procedure for using a pretracheal/precordial stethoscope for respiration monitoring.
    - (F) Procedure for using and maintaining pulse oximeter for monitoring oxygen saturation.
    - (G) Procedure for use and maintenance of capnograph.
    - (H) Characteristics for monitoring blood and skin color and other related factors.
    - (I) Procedures and use of an oxygen delivery system.
    - (J) Characteristics of airway management to include armamentaria and use.
  - (2) Preclinical and clinical instruction shall include at least three experiences on a student or staff person for each of the following, one of each of which shall be used for an examination. Clinical instruction shall include at least three experiences on a patient for each of the following, one of which shall be used for a clinical examination:
    - (A) Assessment of respiration rates.
    - (B) Monitoring and assessment of lung sounds and ventilation with a pretracheal/precordial stethoscope.
    - (C) Monitoring oxygen saturation with a pulse oximeter.

- (D) Use of an oxygen delivery system.
- (l) With respect to drug identification and draw:
  - (1) Didactic instruction shall include:
    - (A) Characteristics of syringes and needles including use, types, gauges, lengths, and components.
    - (B) Characteristics of drug, medication, and fluid storage units, use, type, components, identification of label including generic and brand names, strength, potential adverse reactions, expiration date, and contraindications.
    - (C) Characteristics of drug draw including armamentaria, label verification, ampule and vial preparation, and drug withdrawal techniques.
  - (2) Laboratory instruction shall include at least three experiences in the withdrawal of fluids from a vial or ampule in the amount specified by faculty, one of which shall be for a practical examination.
  - (3) Clinical instruction shall include at least three experiences in the evaluation of vial or container labels for identification of content, dosage, and strength and in the withdrawal of fluids from a vial or ampule in the amount specified by faculty or the extramural facility dentist.
- (m) With respect to adding drugs, medications, and fluids to IV lines:
  - (1) Didactic instruction shall include:
    - (A) Characteristics of adding drugs, medications, and fluids to IV lines in the presence of a licensed dentist.
    - (B) Armamentaria.
    - (C) Procedures for adding drugs, medications, and fluids, including amount and time intervals.
    - (D) Procedures for adding drugs, medications, and fluids by IV bolus.
    - (E) Characteristics of patient observation for signs and symptoms of drug response.
  - (2) Laboratory instruction shall include at least three experiences of adding fluids to an existing IV line on a venipuncture training arm or in a simulated environment, one of which shall be used for a practical examination.
  - (3) Clinical instruction shall include at least three experiences adding fluids to existing IV lines on at least three patients in the presence of a licensed dentist.
- (n) With respect to the removal of IV lines:
  - (1) Didactic instruction shall include overview and procedures for the removal of an IV line.
  - (2) Laboratory instruction shall include at least three experiences on a venipuncture training arm or in a simulated environment for IV removal, one of which shall be used for a practical examination.
  - (3) Clinical instruction shall include at least three experiences removing IV lines on at least three patients in the presence of a licensed dentist.
- (o) Each student shall pass a written examination that reflects the curriculum content, which may be administered at intervals throughout the course as determined by the course director.
- (p) This section shall remain in effect only until January 1, 2011, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2011, deletes or extends that date.

**Business and Professions Code Section 1757 - RDA Programs – Dental Sedation Assistant Instruction**

- (i) (1) A program approved prior to January 1, 2009, shall comply with board regulations with regard to program content until the date specified in the written certification from the program to the board, as specified in subparagraph (B) of paragraph (1) of subdivision (a) , after which time the program content shall meet the requirements of paragraph (2).
- ...
- (3) On and after January 1, 2009, a program that desires to provide instruction in the following areas shall apply separately for approval to provide the following courses:
  - ...
  - (C) A dental sedation assistant permit course that shall meet the requirements of Section 1756.2.